TYPE III ENVIRONMENTAL DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

OAK MOULDINGS

KOKPARSTRADE 98 SIA

Date: 29.05.2024

Geographical scope: EU

A TYPE III ENVIRONMENTAL DECLARATION should provide current information and may be updated if conditions change.

GENERAL INFORMATION

MANUFACTURER INFORMATION

Manufacturer	Kokparstrade 98 SIA
Address	“Dizkoki, Allazu pagasts, Siguldas novads, LV-2154 Latvia
Contact details	info@kokparstrade98.lv
Website	www.kp98.lv

PRODUCT IDENTIFICATION

Product name	Oak mouldings
Place(s) of production	Dizkoki, Allazu pagasts, Siguldas novads, LV-2154 Latvia
CPC code	3121 - Wood, continuously shaped along any of its edges or faces (including strips and friezes for parquet flooring, not assembled, and beadings and mouldings

DECLARATION INFORMATION

The Type III environmental declaration owner has sole ownership, liability, and responsibility for the declaration. Construction products Type III environmental declaration may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

Type III environmental declaration standards	This Type III environmental declaration is in accordance with EN 15804+A2 and ISO 14025 standards.
Product category rules	The CEN standard EN 15804 serves as the core PCR.
Declaration author	K. Zudrags BM Certification
Declaration verification	Independent verification of this Type III environmental declaration and data, according to ISO 14025: ☑ Internal certification ☐ External verification
Validity date	28.05.2029
Internal verifier	A. Meija
Publishing date	29.05.2024

PRODUCT INFORMATION

PRODUCT DESCRIPTION

Production of top-grade, pre-painted Oak (*Quercus alba, Quercus rubra*) mouldings is ready for home installation as soon as they leave our factory. Coated with UV primer and water-based finishes, their appearance is truly pristine. Wide range of dimensions, profiles and finishes produced by Kokparstrade 98 SIA with average moisture content 10 % and density 750 kg/m^3.

PRODUCT APPLICATION

Mouldings from oak are shaped in different shapes that can be used for doors, windows, frames joineries. They are painted.

TECHNICAL SPECIFICATIONS

		Mouldings
Moisture content	%	10
Thickness	mm	6 … 60
Widths	mm	21 … 620
Lengths	mm	1200 … 4800
Density (MC – 10%)	kg/m^3	750
Surface quality		Painted

PRODUCT STANDARDS

Kokparstrade 98 SIA maintains Chain of Custody certifications according to the requirements of standards PEFC International - Chain of custody certification system 2020 (Cert.No BMCERT-PEFC-COC-00044) and FSC-STD-40-004 v3.1 (Cert. No SCS-COC-007888).

ADDITIONAL TECHNICAL INFORMATION

Further information can be found at www.kp98.lv.

PRODUCT RAW MATERIAL COMPOSITION

Product and Packaging Material	Weight, kg	Post-consumer %	Renewable %	Country Region of origin
Oak	750		100	EU
Paint	7.2			EU

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass- %	Material origin
Metals	0	
Minerals	0	
Fossil materials	0.95	EU
Bio-based materials	99.05	EU

SUBSTANCES, REACH - VERY HIGH CONCERN

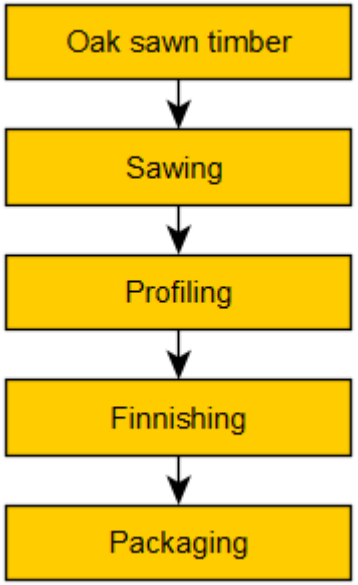
The product contains no REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

A1: During the reviewed period oak mouldings are produced from *Quercus alba, Quercus rubra*. All raw material purchased from USA producers.
A2: The average distance calculated for the period of 1 year is used and the freight lorries of 16-32 metric tons and transport, freight, sea, container ship have been used in calculations.
A3: Oak is cutted and shaped in the length in different profiles, afterwards mouldings are coated with water born paint.



TRANSPORT AND INSTALLATION (A4-A5)

A4 is modelled, assuming that the distance is 100km, and the transport lorry is Euro 5 class. Model A5 modelled, assumed that 73% of plastic goes to recycling.

MANUFACTURING PROCESS

LIFE-CYCLE ASSESSMENT

LIFE-CYCLE ASSESSMENT INFORMATION

Period for data	2023

DECLARED AND FUNCTIONAL UNIT

Declared unit	one cubic meter
Mass per declared unit	750 kg

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in the product, kg C	341
Biogenic carbon content in packaging, kg C	3

SYSTEM BOUNDARY

This Type III environmental declaration covers the cradle to gate with options scope with the following modules; A1 (Raw material supply), A2 (Transport), A3 (Manufacturing), A4 (Transport), A5 (Installation) as well as C1 (Deconstruction), C2 (Transport at end-of-life), C3 (Waste processing) and C4 (Disposal). In addition, module D - benefits and loads beyond the system boundary are included.

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	D	D
x	x	x	x	x	MND	MND	MND	MND	MND	MND	MND	x	x	x	x	MND	x	MND
Geography, by two-letter ISO country code or regions.																		
EU	EU	EU	-	-	-	-	-	-	-	-	-	EU	EU	EU	EU	EU		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstr./demol.	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = MND. Modules not relevant = MNR.

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in EN 15804:2012+A2:2019 and the applied PCR. The study does not exclude any hazardous materials or substances.

The study includes all major raw materials and energy consumption. All inputs and outputs of the unit processes for which data is available for, are included in the calculation. There is no neglected unit process of more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

EN 15804 reference package EF 3.0.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation.

In this study, as per EN 15804, allocation is conducted in the following order;

1. Allocation should be avoided.
2. Allocation should be based on physical properties (e.g. mass, volume) when the difference in revenue is small.

3. Allocation should be based on economic values.

Allocation used in Ecoinvent 3.8 environmental data sources follows the methodology ‘allocation, cut-off by classification’. This methodology is in line with the requirements of the EN 15804 -standard.

ENVIRONMENTAL IMPACT DATA

Note: additional environmental impact data may be presented in annexes.

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total	kg CO_2e	-4.85E+02	1.22E+01	4.88E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	7.04E+00	1.01E+03	1.69E+02	-9.43E+02
GWP – fossil	kg CO_2e	6.45E+02	1.22E+01	3.79E-01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	7.04E+00	5.55E+00	1.90E+01	1.00E+01
GWP – biogenic	kg CO_2e	-1.14E+03	4.95E-03	4.50E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	2.72E-03	1.00E+03	1.50E+02	-9.53E+02
GWP – LULUC	kg CO_2e	1.12E+01	4.88E-03	3.28E-04	MND	MND	MND	MND	MND	MND	MND	0.00E+00	2.60E-03	1.26E-02	4.52E-03	5.58E-03
Ozone depletion pot.	kg CFC_{-11}e	9.82E-05	2.83E-06	3.01E-08	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.62E-06	2.81E-07	2.88E-06	6.70E-07
Acidification potential	mol H^+e	6.91E+00	3.47E-02	1.15E-03	MND	MND	MND	MND	MND	MND	MND	0.00E+00	2.98E-02	2.98E-02	4.38E-02	1.08E-01
EP-freshwater[3)]	kg Pe	2.01E-02	8.72E-05	1.10E-05	MND	MND	MND	MND	MND	MND	MND	0.00E+00	5.76E-05	5.71E-04	2.77E-03	-2.51E-03
EP-marine	kg Ne	1.64E+00	6.92E-03	2.78E-04	MND	MND	MND	MND	MND	MND	MND	0.00E+00	8.86E-03	4.19E-03	1.09E-02	5.13E-02
EP-terrestrial	mol Ne	1.78E+01	7.69E-02	3.02E-03	MND	MND	MND	MND	MND	MND	MND	0.00E+00	9.77E-02	4.74E-02	9.72E-02	5.46E-01
POCP (“smog”)	kg NMVOCe	5.11E+00	2.95E-02	9.24E-04	MND	MND	MND	MND	MND	MND	MND	0.00E+00	3.13E-02	1.33E-02	3.06E-02	1.33E-01
ADP-minerals & metals	kg Sbe	1.64E-03	4.42E-05	1.70E-06	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.65E-05	1.53E-05	6.69E-05	2.76E-05
ADP-fossil resources	MJ	9.45E+03	1.82E+02	3.59E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.06E+02	1.16E+02	1.55E+02	8.50E+01
Water use[2)]	m^3e depr.	2.08E+02	8.51E-01	7.46E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	4.73E-01	3.11E+00	2.17E+00	4.47E+01

1) GWP = Global Warming Potential; EP = Eutrophication potential; POCP = Photochemical ozone formation; ADP = Abiotic depletion potential. 2) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator. 3) Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO_4e.

USE OF NATURAL RESOURCES

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy	MJ	1.44E+04	2.65E+00	3.55E-01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.19E+00	2.01E+01	3.51E+00	5.60E-01
Renew. PER as material	MJ	9.35E+03	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-5.00E-02
Total use of renew. PER	MJ	2.37E+04	2.65E+00	3.55E-01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.19E+00	2.01E+01	3.51E+00	5.10E-01
Non-re. PER as energy	MJ	9.23E+03	1.82E+02	3.59E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.06E+02	1.15E+02	1.55E+02	8.50E+01
Non-re. PER as material	MJ	1.82E+02	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-02
Total use of non-re. PER	MJ	9.41E+03	1.82E+02	3.59E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.06E+02	1.15E+02	1.55E+02	8.50E+01
Secondary materials	kg	2.50E+00	6.19E-02	5.14E-03	MND	MND	MND	MND	MND	MND	MND	0.00E+00	2.94E-02	4.36E-02	2.16E-01	5.36E-01
Renew. secondary fuels	MJ	1.51E+00	6.81E-04	3.86E-05	MND	MND	MND	MND	MND	MND	MND	0.00E+00	2.96E-04	6.99E-05	5.81E-04	2.58E-04
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	m^3	5.38E+00	2.32E-02	2.14E-03	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.37E-02	9.71E-02	7.06E-02	-1.38E-01

6) PER = Primary energy resources

END OF LIFE – WASTE

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	2.92E+01	2.07E-01	2.19E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.40E-01	4.75E-01	7.21E+00	2.88E-02
Non-hazardous waste	kg	5.63E+02	3.68E+00	5.71E-01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	2.30E+00	2.59E+01	8.85E+01	6.55E+02
Radioactive waste	kg	4.16E-02	1.25E-03	2.34E-05	MND	MND	MND	MND	MND	MND	MND	0.00E+00	7.07E-04	8.31E-04	1.47E-05	-7.62E-06

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	2.00E-01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	0.00E+00	6.42E-01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	6.75E+02	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	7.20E+01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	7.59E+03	0.00E+00	0.00E+00

ENVIRONMENTAL IMPACTS – GWP-GHG - THE INTERNATIONAL EPD SYSTEM

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG	kg CO_2e	6,45E+02	1,22E+01	3,79E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,04E+00	5,55E+00	1,90E+01	1,00E+01

7) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product as defined by IPCC AR 5 (IPCC 2013) This indicator Is almost equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

SCENARIO DOCUMENTATION

End of life scenario documentation

Scenario parameter	Value
Recovery process – kg for energy recovery	90 %
Disposal (total) – kg for final deposition	10 %
Scenario assumptions e.g. transportation	100 km

BIBLIOGRAPHY

ISO 14025:2010 Environmental labels and declarations – Type III environmental declarations. Principles and procedures.

ISO 14040:2006 Environmental management. Life cycle assessment. Principles and frameworks.

ISO 14044:2006 Environmental management. Life cycle assessment. Requirements and guidelines.

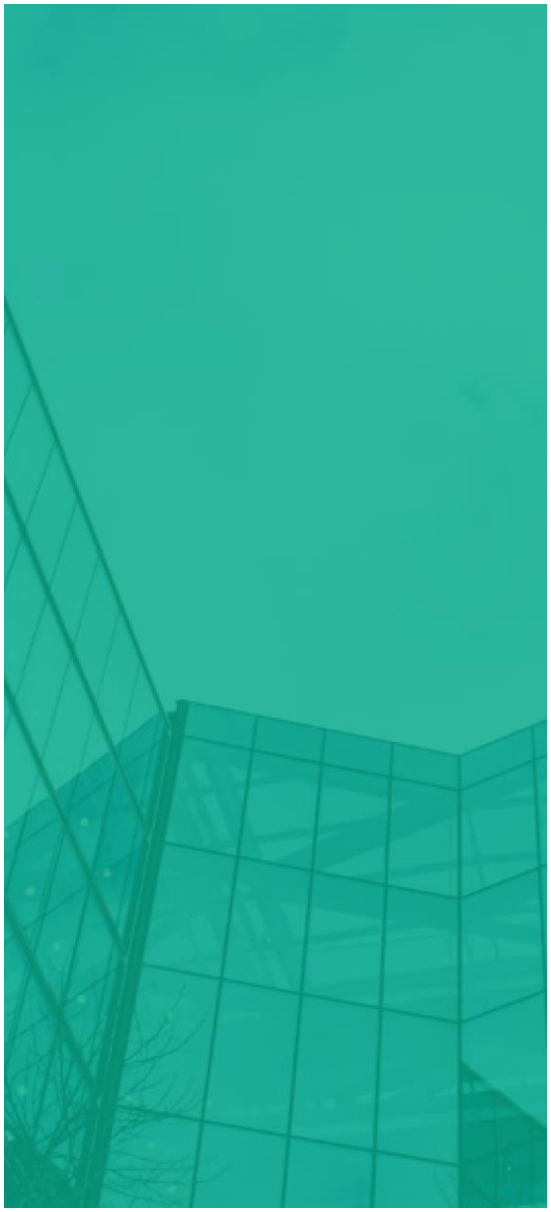
Ecoinvent database v3.8 and One Click LCA database.

EN 15804:2012+A2:2019 Sustainability in construction works – Environmental product declarations – Core rules for the product category of construction products.

Oak mouldings LCA background report 29.05.2024

EN 16449:2014 Wood and wood-based products - Calculation of the biogenic carbon content of wood and conversion to carbon dioxide

EN 16485:2014 Round and sawn timber. Environmental Product Declarations. Product category rules for wood and wood-based products for use in construction



ABOUT THE MANUFACTURER

Kokparstrade 98 SIA has grown into Latvia's largest manufacturer of wooden mouldings & decorative interior finishings by combining the highest levels of quality with convenience: we constantly exceed customer expectations by offering pristine end-products that are meticulously primed, painted, and ready for home installation as soon as they leave our factory.

Most importantly, we understand the great amount of effort homeowners put into improving the beauty and elegance of their homes, and our decorative product range reflects that understanding. We have committed to producing high value-added products, so that homeowners can add lasting value to their own beloved homes.

AUTHOR AND CONTRIBUTORS

Manufacturer	Kokparstrade 98 SIA
Type III environmental declaration author	K. Zudrags BM Certification
Verifier	A. Meija
Background data	This Type III environmental declaration is based on Ecoinvent 3.8 (cut-off) and One Click LCA databases.
LCA software	The LCA and Type III environmental declaration have been created using One Click LCA Pre-Verified EPD Generator for Wood and plant-fibre based products

VERIFICATION STATEMENT

VERIFICATION PROCESS FOR THIS TYPE III ENVIRONMENTAL DECLARATION

This Type III environmental declaration has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliancy with EN 15804, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration,
- The Life-Cycle Assessment used in this Type III environmental declaration,
- The background report (project report) for this Type III environmental declaration.

Why does verification transparency matter? Read more online.

VERIFICATION OVERVIEW

Following independent third party has verified this specific Type III environmental declaration:

Type III environmental declaration verification information	Answer
Independent verifier	A. Meija
Verification started on	29.05.2024
Verification completed on	30.05.2024

THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Type III environmental declaration, its LCA and project report, in terms of

- the data collected and used in the LCA calculations,
- the way the LCA-based calculations have been carried out,
- the presentation of environmental data in the Type III environmental declaration, and
- other additional environmental information, as present

with respect to the procedural and methodological requirements in ISO 14025:2010 and EN 15804:2012+A2:2019.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the Type III environmental declaration to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

A. Meija